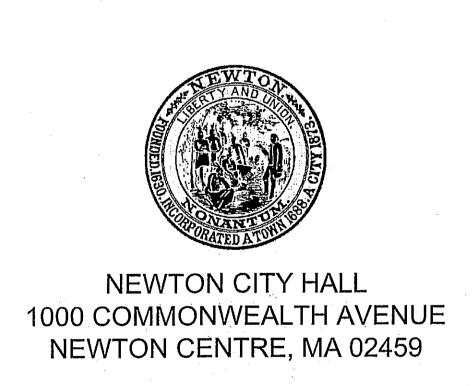
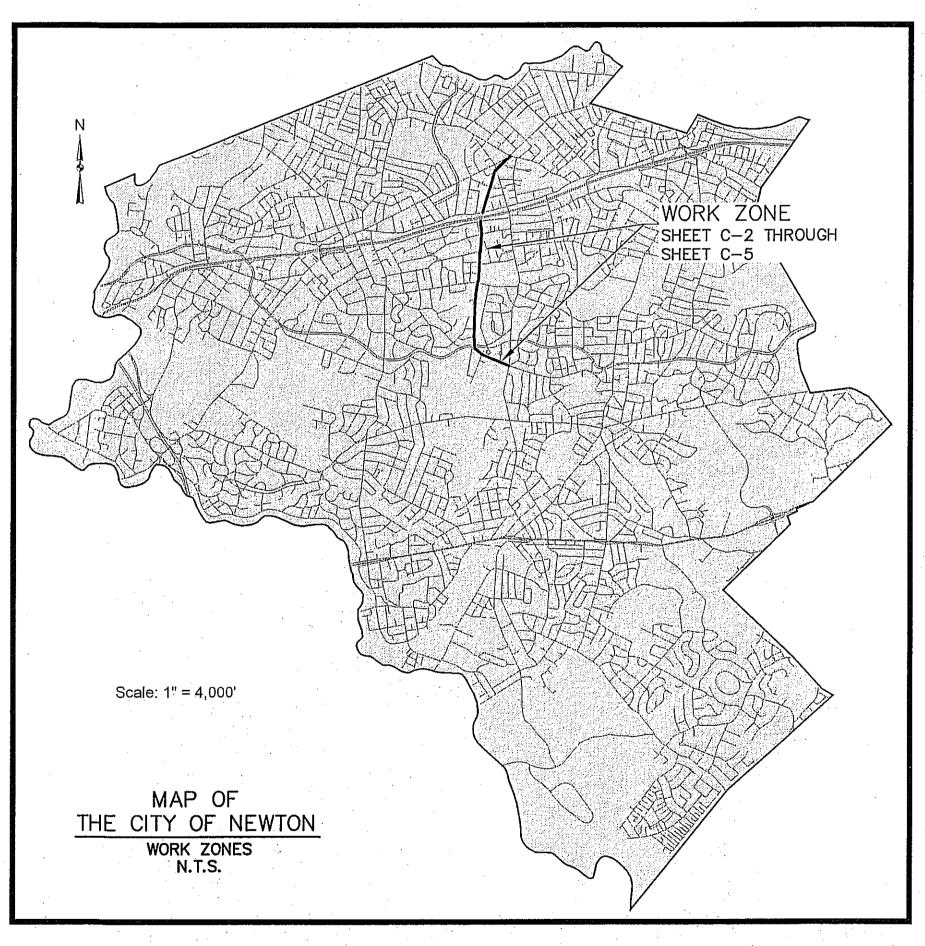
CITY OF NEWTON, MASSACHUSETTS WATER MAIN REHABILITATION AT HOMER STREET AND LOWELL AVENUE

BID NO. 12-83

PLAN NO. N84-38909





LOCUS MAP





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GENERAL PROCESS AND CONSTRUCTION NOTES:

- TH.E LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE INTENDED ONLY TO ADVISE THE CONTRACTOR OF THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS OF ALL EXISTING UTILITIES, INCLUDING SERVICES. CALL "DIG SAFE" (1-888-344-7233) FOR FIELD LOCATIONS OF ALL EXISTING UTILITIES. CONTRACTOR SHALL NOT OCCUPY ANY AREA(S) UNTIL THE "DIG SAFE" AUTHORIZATION DATE HAS BEEN ATTAINED. IN ADDITION, THE CONTRACTOR SHALL CONTACT THE CITY OF NEWTON FOR WATER,
- ALL BENDS, TEES, CAPS AND HYDRANTS SHALL BE BACKED WITH CONCRETE THRUST BLOCKS AS INDICATED IN THE CONTRACT DRAWINGS. MEGALUGS ARE TO BE INSTALLED ON ALL BENDS, VALVES AND TEES. THE CONTRACTOR SHALL MAKE EVERY EFFORT NOT TO DISTURB THE EXISTING WATER SYSTEM OUTSIDE THE PROJECT AREA. NO ADDITIONAL PAYMENT SHALL BE MADE FOR DAMAGE CREATED AT THE CONVENIENCE OF THE CONTRACTOR.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE NEW WATER MAIN SHALL PASS UNDER THE EXISTING UTILITIES, DRAIN LINES, EXISTING WATER MAINS AND HYDRANTS. THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE BETWEEN THE NEW WATER MAIN AND OTHER EXISTING UTILITIES OF AT LEAST 18-INCHES. ANY WATER MAIN OR SERVICE WITHIN 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY OF A SEWER LINE OR STRUCTURE SHALL BE ENCASED
- ALL WATER PIPES ARE TO BE LAID WITH A MINIMUM OF 5'-0" COVER, EXCEPT AS INDICATED OTHERWISE IN THE CONTRACT DRAWINGS.
- NEW WATER MAINS MUST PASS A CHLORINATION TEST AND A PRESSURE TEST BEFORE WATER SERVICES ARE TIED OVER.
- THE CONTRACTOR AT HIS EXPENSE SHALL PROVIDE ADDITIONAL TAPS AS NECESSARY FOR THE CHLORINATING AND HYDROSTATIC TESTING. TAPS SHALL BE CAPPED AFTER TESTING IS COMPLETE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF NEWTON. ALL EXCAVATION AND RESTORATION SHALL MEET CITY SPECIFICATIONS. A CITY STREET OPENING PERMIT AND TRENCH OPENING PERMIT (APPLICATION FEES WAIVED) WILL BE REQUIRED FOR ALL STREETS WITHIN THE PROJECT AREA PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE ABOVE MENTIONED PERMITS. PURSUANT TO M.G.L. CHAPTER 82A:1; 520 CMR 7.00 AND 520 CMR 14.00, ALSO IN ACCORDANCE WITH SUMMARY OF 1926 SUBPART P - OSHA EXCAVATION STANDARD' THE CONTRACTOR IS RESPONSIBLE FOR THE FILING OF AND FULLY MEETING THE CONDITIONS OF THE NEWLY ADOPTED TRENCH PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF PAVEMENT MARKINGS, TRAFFIC SIGN LOOPS, STRIPING, ARROWS, CROSSWALKS, ETC. THE CONTRACTOR AT HIS EXPENSE SHALL BRACE UTILITY POLES IF REQUIRED, AND REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING SIDEWALKS, CURBS, PAVING, SHRUBS, TREES, STONE WALLS, LAWNS, ETC. ALL EXCAVATED/DISTURBED AREAS SHALL BE RETURNED TO EQUAL OR BETTER THAN
- BASE MAP INFORMATION BASED UPON CITY OF NEWTON GIS MAPPING AND FIELD VERIFICATION. STATIONING ALONG THE LENGTH OF THE WATER MAIN IS INTENDED FOR GENERAL REFERENCE. WHERE PRECISE GROUND LOCATION IS REQUIRED, REFER TO PLANS FOR ACTUAL DISTANCES FROM EXISTING GROUND FEATURES.

- WHERE NEW WATER MAINS RUN PARALLEL TO EXISTING WATER MAINS, THE EXISTING MAINS AND HYDRANTS SHALL REMAIN IN SERVICE UNTIL ALL SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN ALL EXISTING WATER SERVICES THAT ARE NOT OF COPPER MATERIAL ARE TO BE REPLACED TO THE PROPERTY LINE INCLUDING A NEW CORPORATION, SERVICE TUBING, COUPLING AND CURB STOP UNLESS OTHERWISE NOTED BY THE ENGINEER. NEW SERVICES ARE TO BE INSTALLED AS SPECIFIED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS. NEW SERVICES ARE SHOWN ON PLANS NEXT TO EXISTING WATER SERVICE TRENCH. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ALL ABANDONED SERVICES ARE TO BE INSTALLED IN EXISTING WATER SERVICE TRENCH. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ALL ABANDONED SERVICES ARE
- TO BE SHUT OFF AT THE CORPORATION AT THE TIME OF THE NEW TIE OVER. ALL EXISTING COPPER WATER SERVICES SHALL REMAIN IN-PLACE AND WILL BE TIED OVER TO THE NEW WATER MAIN WITH A NEW CORPORATION, NEW SERVICE TUBING, AND NEW COUPLING THE HOUSE SERVICE CONNECTIONS SHALL BE COMPLETED AFTER THE NEW WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND APPROVED.
- REMOVE ALL EXISTING HYDRANTS AND CAP BRANCH WHEN NEW WATER MAINS ARE IN SERVICE UNLESS OTHERWISE NOTED. DELIVER UP TO TEN (10) REMOVED HYDRANTS TO CITY OF NEWTON STOCK YARD AT 60 ELLIOT STREET.
- CONTRACTOR SHALL USE A WATER TIGHT PLUG DURING THE WATER MAIN INSTALLATION. PLUG SHALL REMAIN IN PLACE AT ALL TIMES.
- CONTRACTOR IS REQUIRED TO SUBMIT A COMPACTION REPORT AS SPECIFIED IN THE SPECIFICATIONS. 23. AS APPROPRIATE, CONTRACTOR TO TAKE ALL NECESSARY MEASURES, INCLUDING HAND DIGGING, TO MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE PIPES.
- LOCATION OF EXISTING DRAINAGE IS APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- THE CONTRACTOR IS REQUIRED TO PROVIDE A SUPERINTENDENT OF OPERATIONS, A QUALIFIED INDIVIDUAL WHO WILL BE ON-SITE AT ALL TIMES TO ADDRESS THE CRITICAL NEEDS OF THE PROJECT. IN ADDITION, A 7 DAY/24 HOUR CELL PHONE MUST BE LISTED WITH THE CITY TO RESPOND TO ALL
- FOR FURTHER UTILITY SUPPORT AND EMERGENCY RESPONSE REQUESTS, THE CONTRACTOR IS ADVISED TO CONTACT: KEYSPAN @ GAS, N-STAR @ ELEC., VERIZON @ TEL., AT&T CABLE, COMCAST CABLE, NEWTON WATER, NEWTON SEWER & DRAIN.
- 27. ANY UTILITY RELOCATIONS, AND/OR UTILITY ISSUES, ARE TO BE DIRECTLY ADDRESSED AND COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANY. FURTHER, IN THE EVENT CERTAIN AGED GAS MAINS AND/OR SERVICES ARE TARGETED TO BE RENEWED THEN THE
- ALL EXCESS EXCAVATION MATERIAL AND/OR WASTE ITEMS OF ANY TYPE OR MATERIAL, ARE TO BE DISPOSED OF AT A LEGAL DUMPING SITE AT THE CONTRACTORS OWN EXPENSE. NO DISPOSAL SITE SHALL BE PROVIDED BY THE CITY. ALL DEBRIS IS TO BE REMOVED FROM THE SITE ON A DAILY BASIS. HOWEVER, IF SITE CONSTRAINTS ARE NOT AN ISSUE THEN THE CONTRACTOR CAN MAINTAIN A LOCKED LID' DUMPSTER AT THE DISCRETION OF THE ENGINEER AND BY PERMIT ONLY AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 30. ALL RESIDUAL MATERIAL IS TO BE HAND BROOMED FROM THE ROADWAY AT THE END OF EACH DAYS OPERATION AND EVERY MEASURE TAKEN TO MINIMIZE DUST, INCLUSIVE OF CHEMICAL TREATMENT AND /OR WATER APPLICATION AS DIRECTED BY THE ENGINEER. 31. STAGING AND STOCKPILING SITES, FOR NEW MATERIALS ONLY WILL BE APPROVED ON A SITE BY SITE BASIS SUBJECT TO THE REVIEW OF TRAFFIC, SCHOOL, PARKING, AND ANY OTHER CRITICAL FACTORS WHICH MAY ADVERSELY AFFECT THE AREAS WITHIN AND/OR ADJACENT TO THE CONSTRUCTION
- 32. ALL EXCAVATIONS ARE TO BE BACKFILLED IN LIFTS, WITH EACH SUCCESSIVE LIFT BEING COMPACTED ONLY WITH APPROVED MECHANICAL TYPE COMPACTORS AND/OR PNEUMATICALLY POWERED TAMPING BITS, UNTIL SUCH TIME AS THE OPTIMUM COMPACTION REQUIREMENTS ARE OBTAINED. THIS IS STRICTLY ENFORCED TO ENSURE LONG-TERM STRUCTURAL INTEGRITY OF THE ROADWAY SYSTEM.
- AREAS BEYOND THE LIMITS OF THIS CONTRACT AND/OR STRUCTURES DISTURBED AND/OR DAMAGED BY THE CONTRACTOR, ARE TO BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY ASPECTS OF THE PROJECT, AND COMPLIANCE WITH THE MOST CURRENT U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) & THE MASSACHUSETTS DEPT. OF LABOR DIVISION OF OCCUPATIONAL SAFE REGULATIONS (617-727-3982).
- THESE COMPLIANCE STANDARDS ARE OF PARTICULAR IMPORTANCE WITH REGARD TO TRENCH EXCAVATION SAFETY REQUIREMENTS. HOURS OF OPERATIONS ARE SET BY LAW. NO MACHINES OR EQUIPMENT ARE TO BE ACTIVATED BEFORE 7:00 A.M. & NO WORK IS TO EXTEND BEYOND 4:30 P.M. NO WEEKEND OR HOLIDAY WORK IS ALLOWED WITHOUT SPECIAL PERMISSION. THE CONTRACTOR IS LIMITED TO AN EIGHT HOUR WORKDAY
- PRIOR TO MOBILIZATION, THE CONTRACTOR IS TO COORDINATE WITH THE WATER DEPT. AND THE ENGINEER, AND IS THEN TO LOCATE, UNCOVER, BLOW-OUT, AND DETERMINE THE SERVICEABILITY OF ALL EXISTING GATE VALVES AND/OR HYDRANTS WHICH ARE TO BE UTILIZED TO PERFORM THE
- WORK. OPERATION OF THE GATE VALVES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE PERFORMED UNDER THE DIRECTION OF THE ENGINEER. THE CONTRACTOR MUST GIVE THE CITY OF NEWTON WATER DEPARTMENT (617-796-1640), THE CITY OF NEWTON CUSTOMER SERVICE CENTER (617-796-2210), THE NEWTON POLICE DEPT. (617-796-2100) AT LEAST 24 HOURS NOTICE PRIOR TO ANY SCHEDULED WATER AIN SHUT-DOWN. IN ADDITION, ANY EMERGENCY SHUT-DOWN OF WATER MAINS IS TO BE REPORTED TO THESE SAME AUTHORITIES FOR EACH EVENT. FURTHER, ANY SCHEDULED WATER MAIN SHUT-DOWN(S) SHALL NOT BEGIN BEFORE 9:00 A.M. UNLESS OTHERWISE DIRECTED.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, COMMUNICATING WITH, AND SUBSEQUENTLY ADDRESSING THE VISUALLY IMPAIRED AND/OR THE PHYSICALLY CHALLENGED WHO RESIDE IN OR ABOUT THE PROJECT ZONE OR WHO OTHERWISE MUST ACCESS THE AREA(S). 39. THE VARIOUS PROPOSED WATER MAINS, WATER SERVICES, HYDRANTS, VALVES, GENERAL SCOPE OF COMPONENTS AND THEIR RESPECTIVE LOCATIONS, AND OTHER APPURTENANCES WHICH ARE SHOWN ON THESE PLANS ARE SUBJECT TO CHANGE AT THE ENGINEERS DISCRETION IN THE FIELD. 40. THE FINAL DETERMINATION OF THE PROJECT LIMIT(S) SHALL BE ESTABLISHED IN THE FIELD BY THE ENGINEER, INCLUSIVE OF WORK WHICH MUST BE PERFORMED ALONG THE PROJECT ZONE(S) IN ORDER TO REPAIR DEFECTIVE WATER APPURTENANCES TO ISOLATE THE
- THE CONTRACTOR IS TO BAG AND TAG ALL OUT OF SERVICE HYDRANTS, AND IS TO NOTIFY THE CITY OF NEWTON FIRE DEPT. OF ALL OUT OF SERVICE HYDRANTS IN A MANNER ACCEPTABLE TO THE ENGINEER. 42. ALL EXISTING WATER SERVICES SHALL BE RENEWED FROM THE MAIN TO THE PROPERTY LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER (NOTE: PVT. COUPLING SIZES WILL VARY). THIS WORK INCLUDES THE TAPPING OF THE MAIN (GENERALLY OF 1" SIZE, HOWEVER IN CERTAIN CASES A SERVICE
- THE CONTRACTOR IS TO COORDINATE WITH THE BUILDING OWNER TO PERFORM THE REMOVAL, CLEARING AND REINSTALLATION OF THE WATER METER, METER VALVE AND SEAL.
- THE CONTRACTOR IS REQUIRED TO LEAVE WRITTEN NOTICES AT ALL ADDRESSES DIRECTLY AFFECTED BY THE SCHEDULED DISRUPTION OF THE WATER SUPPLY. THESE NOTICES MUST BE DELIVERED AT LEAST 24 HOURS IN ADVANCE OF EITHER THE SCHEDULED SHUT-DOWN AND/OR A REQUEST FOR ACCESS TO THE METER. NOTIFICATIONS SHALL BE ON A FORMAT APPROVED OR PROVIDED BY THE ENGINEER, AND SHALL BE POSTED IN A CONSPICUOUS MANNER AT EACH ADDRESS AND AS NEAR TO THE LOCATION OF THE REGULAR MAIL DELIVERY AS POSSIBLE. ALL EXISTING GATE VALVES ARE TO BE REPLACED WITH NEW GATE VALVES, NEW SECTIONS OF DUCTILE IRON PIPE, AND NEW COUPLINGS ON ANY WATER MAIN WHICH IS CLEANED AND LINED.
- 46. THE CONTRACTOR IS REQUIRED TO TAKE AS-BUILT TIES AS THE WORK PROGRESSES. THIS ACTIVITY IS TO TAKE PLACE UNDER THE ENGINEER. THE CONTRACTOR MUST PURGE ALL AIR FROM THE WATER MAIN(S) & SERVICES WHEN THE VALVES ARE REOPENED, AND MAINTAIN LOW FLOW UNTIL SUCH TIME AS ALL DISCOLORATION AND AIR IS REMOVED FROM THE WATER SYSTEM.
- ALL 'SHORT-TERM' STEEL TRENCH PLATES, (UP TO FIVE CALENDAR DAYS OF USE), ARE TO BE SECURED IN SUCH A MANNER SO AS TO PREVENT MOVEMENT AND/OR 'RATTLING'. ALL 'LONG-TERM' PLATES ARE TO BE RECESSED INTO THE EXISTING ROADWAY. THE CONTRACTOR IS TO MAINTAIN AND/OR PROVIDE EMERGENCY VEHICLE ACCESS THROUGHOUT EACH PROJECT AREA. IN ADDITION, NO TRAFFIC DELAY IS TO EXCEED FOUR MINUTES IN DURATION ON ANY ARTERIAL ROAD. ALL SECONDARY ROADS MUST BE APPROPRIATELY DETOURED, MARKED, OR
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, POSTING AND SUBSEQUENT REMOVAL OF ALL TEMPORARY PARKING BANS. SIGNS ARE NOT TO BE POSTED ON TREES. THE CONTRACTOR IS TO NOTIFY THE CITY OF NEWTON TRAFFIC DIVISION (617-796-1490) AT LEAST 24 HOURS PRIOR TO
- FOR FURTHER DETAILS NOT SHOWN ON THESE PLANS SEE 'CITY OF NEWTON GENERAL CONSTRUCTION DETAILS,' A COPY OF WHICH CAN BE OBTAINED AT THE OFFICE OF THE CITY ENGINEER. 51. FOR FURTHER DETAILS NOT SHOWN ON THESE PLANS SEE CIT TO FIREWICK GENERAL CONSTRUCTION DETAILS, A COLUMN TO THE RESERVES THE RIGHT TO REQUEST PAVEMENT INTERVALS IF WEATHER OR OTHER CONDITIONS MAKE IT NECESSARY. THERE WILL BE NO ADDITIONAL COMPENSATION FOR TEMPORARY TRENCH PAVEMENT SHALL BE INSTALLED ON A WEEKLY BASIS. OWNER RESERVES THE RIGHT TO REQUEST PAVEMENT INSTALLATION OF PERMANENT PAVEMENT. PERMANENT PAVEMENT SHALL BE INSTALLED BY THE OWNER.

 CHANGES IN THE PAVING SCHEDULE. TEMPORARY PAVEMENT SHALL BE COMPLETELY REMOVED PRIOR TO THE INSTALLATION OF PERMANENT PAVEMENT. PERMANENT PAVEMENT.

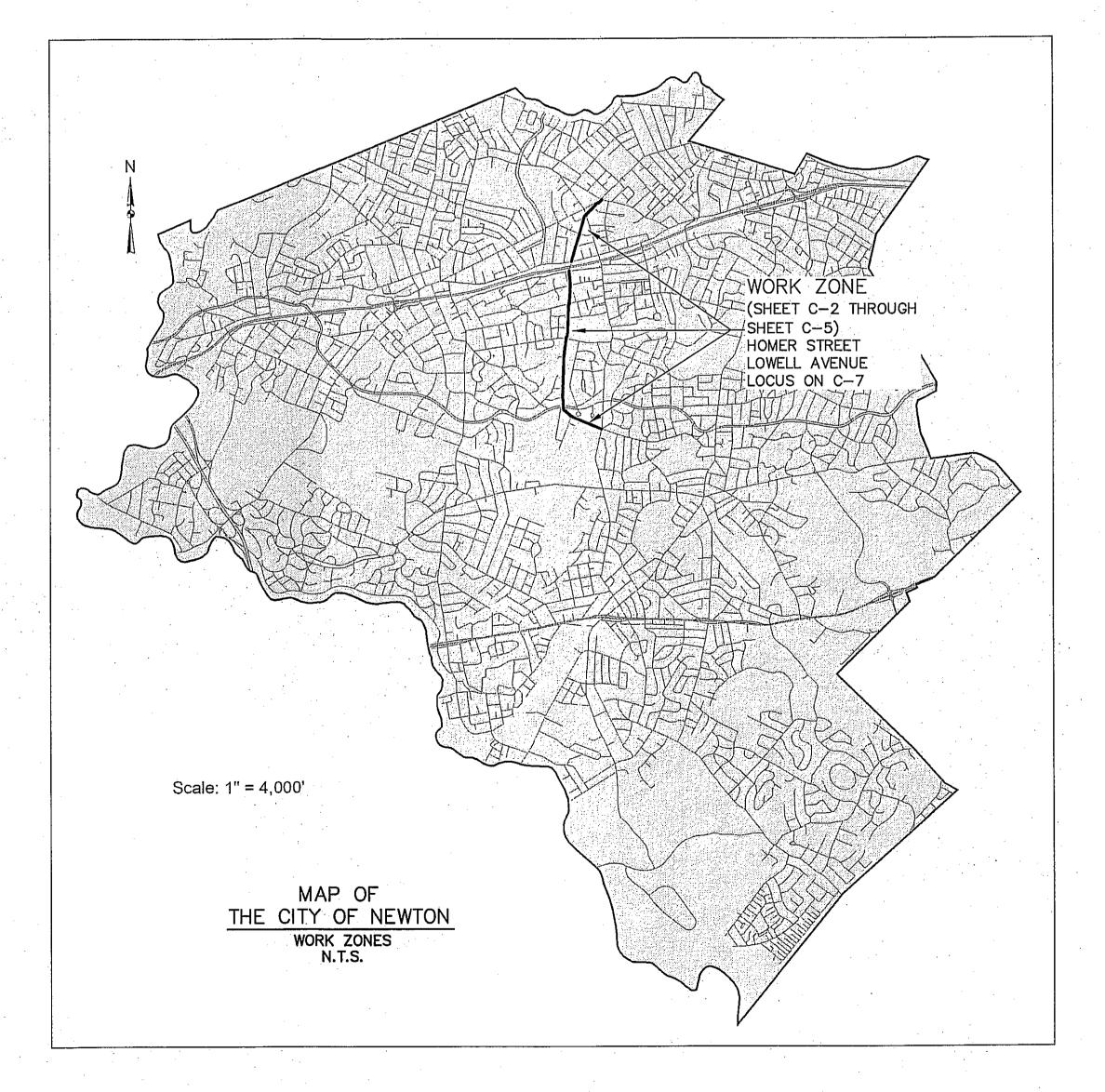
- ESPECTIVE WATER MAIN REHABILITATION ACTIVITIES. THE CONTRACTOR IS TO RESTORE ALL ROADWAY ELEMENTS IN ACCORDANCE WITH THE CASE-BY-CASE DIRECTIVES OF THE ENGINEER.

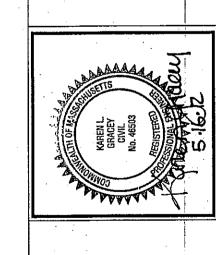
- ALL DETOURS SHALL BE CLEARLY MARKED ALONG THEIR ENTIRE ROUTE, AND ONLY WITH APPROVED DEVICES & SIGNS, SUCH THAT A STEADY STREAM OF TRAFFIC IS TO BE SAFELY MAINTAINED AT ALL TIMES.
- 65. THE CONTRACTOR IS REQUIRED TO STRATEGICALLY SCHEDULE HIS WORK IN ORDER TO MINIMIZE THE IMPACT ON ESTABLISHED TRUCK, FIRE DEPT., PUBLIC WORKS AND COMMUTER TRAFFIC PATTERNS. TO THAT END THE CONTRACTOR IS TO RESTRICT HIS OPERATIONS TO THE SPECIFIC WORK ZONE
- (WHICH MAY BE MODIFIED BY DIRECTION OR BY MUTUAL AGREEMENT). FURTHER, THE CONTRACTOR IS NOT TO BEGIN EXCAVATION OPERATIONS IN THE NEXT WORK ZONE UNTIL THE WORK IN THE PREVIOUS WORK ZONE HAS BEEN SUBSTANTIALLY COMPLETED TO THE SATISFACTION OF THE 66. THE CITY OF NEWTON RESERVES THE RIGHT TO DESIGNATE THE ORDER IN WHICH THE WORK IS COMPLETED. THE INTENT IS TO MINIMIZE THE IMPACT WHICH THE CONSTRUCTION RELATED ACTIVITIES MAY HAVE ON THE SCHEDULED PUBLIC EVENTS, ON PEAK PERIODS OF TRAFFIC, ON SCHOOL
- 67. UTILITY MAINS, SEWER HOUSE CONNECTIONS AND/OR WATER SERVICES LOCATED ALONG THE PROJECT CORRIDOR(S) ARE NOT ALWAYS SHOWN IN THEIR EXACT LOCATIONS, THEREFORE ANY SUPPLEMENTAL HARD-COPY SERVICE AND/OR TRUNK LINE RELATED INFORMATION
- CONTRACTOR SHALL PROTECT THE STRUCTURAL INTEGRITY OF ALL 8" DIAMETER CAST IRON GAS MAINS AND SMALLER IN ACCORDANCE WITH 220 CMR 113. CONTRACTOR SHALL LIMIT TRENCH WIDTH TO 3 FEET MAXIMUM WHERE UNDER MINING OCCURS AT A PERPENDICULAR CROSSING.
- ALL GAS SERVICES ARE NOT SHOWN ON PLANS. CALL "DIG SAFE" (1-888-344-7233) FOR FIELD LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION. 71. SILT SACKS SHALL BE USED ON ALL CATCH BASINS WITHIN PROJECT LIMITS TO MINIMIZE SILT DEPOSITS INTO DRAINAGE SYSTEM. AT LOCATIONS WHERE TEMPORARY SERVICES CROSS THE ROAD, SERVICES SHALL BE ADEQUATELY PROTECTED IN A SOLID SLEEVE, PLACED IN A TRENCH OF ADEQUATE
- TEMPORARY BY-PASS PIPING FIRE SERVICE CONNECTIONS (WHETHER SHOWN ON THESE PLANS OR NOT), AND PUBLIC HYDRANT RISERS ARE TO BE ESTABLISHED AND MAINTAINED AT ALL TIMES VIA A BY-PASS PIPING SYSTEM, BASED UPON A 'TARGET' PLAN THAT HAS BEEN PRE-APPROVED BY THE
- ENGINEER, WHICH AT A MINIMUM SHOWS THE PIPE SIZE, LOCATIONS OF RECESSED CROSSINGS & TEMPORARY HYDRANT LOCATIONS.
- 74. BY-PASS PIPES ARE NOT TO INTERFERE WITH PEDESTRIAN, HANDICAP, OR VEHICULAR TRAFFIC. SUPPLEMENTAL RAMPING AND/OR ADDITIONAL 'CUT-IN'/HOT MIX CAPPED RECESSED PIPES, OR THERE APPURTENANCE, WILL BE AT THE DISCRETION OF THE ENGINEER SHOULD THE NECESSITY ARISE
- THE CONTRACTOR IS TO PROVIDE A TEMPORARY FIRE LINE BY-PASS CONNECTION TO ALL BUILDINGS THAT ARE CURRENTLY SERVICED BY A FIRE LINE.
- ALL TEMPORARY BY-PASS, CEMENT CONCRETE AND/OR PERMANENT BIT. PATCH WORK (SUBJECT TO APPLICABLE RESTRICTIONS) MUST BE COMPLETED PRIOR TO THE ONSET OF FREEZING AND/OR WINTER CONDITIONS (OCT 31 TARGET). ALL OTHER WORK MUST BE COMPLETED BY DECEMBER 1ST, PRIOR TO THE START OF CONSTRUCTION, A TEMPORARY BY-PASS PIPING SYSTEM SHALL BE THE RESPONSIBILITY OF
- THE CONTRACTOR, AND THE CONTRACTOR SHALL SUBMIT A BY-PASS PIPING PLAN FOR ENGINEER REVIEW PRIOR TO INSTALLATION.
- 80. TEST PITS SHALL BE DUG AT EACH EXISTING WATER SERVICE ALONG THE PROJECT LIMITS TO DETERMINE THE WATER SERVICE LINE MATERIAL. ALL SERVICES THAT ARE NOT COPPER SHALL BE REPLACED. ALL COPPER SERVICES SHALL REMAIN.
- EXISTING WATER MAIN SHALL BE REMOVED AND PROPERLY DISPOSED OF WHERE NEW WATER MAINS ARE PROPOSED. 82. NO WORK IS TO BE COMPLETED FROM STA. 46+00 TO STA. 49+35. THIS STATIONING IS FOR REFERENCE ONLY.



NEWTON CITY HALL 1000 COMMONWEALTH AVENUE **NEWTON CENTRE, MA 02459**

| | | <u>LEGEND</u> | | | | | <u>ABBREVIATIONS</u> | | |
|-----|-------------------|------------------------------------|---------------|---|--|-------|----------------------|------|--|
| | EXISTING | DESCRIPTION | PROPOSED | | | HYD | HYDRANT | •. | |
| | V | WATER MAIN | | | • | RCP | REINFORCED CONCRETE | PIPE | |
| | | CLEAN AND LINE WATER MAIN | | · | | D.I. | DUCTILE IRON | | |
| | \square | GATE VALVE | X | • | | C.I. | CAST IRON | | |
| • | (| GATE VALVE MANHOLE | | | | INV | INVERT | | |
| | ▼ | REDUCER | ~ | | • | TYP | TYPICAL | | |
| | | SOLID SLEEVE | | • | | CDF | CONTROLLED DENSITY F | 1LL | |
| | 1 <u> </u> | TEE COUPLING | ⊞ = | | | СВ | CATCH BASIN | | |
| | n – | CAP | _ | • | en de la companya de La companya de la co | | | | |
| | 洪 | FIRE HYDRANT | - | | | DMH | DRAIN MANHOLE | | |
| | 0 | WATER SERVICE | • | | | SMH | SEWER MANHOLE | | |
| | ч | PLUG | ப | | | EX | EXISTING | | |
| | XXX. *WS# XXXX | WATER SERVICE INSTALLED PRIOR TO 1 | 980 | | | B.S. | BARE STEEL | | |
| • | XXX. | WATER SERVICE | | | | c.s. | COATED STEEL | • | |
| | WS# XXXX | INSTALLED AFTER 1980 |) | | | P.S. | PLASTIC | | |
| | | WATER MAIN BEND | ア | | | L.P. | LOW PRESSURE | | |
| | 8 | SEWER MANHOLE | | | | 1.P. | INTERMEDIATE PRESSUR | E | |
| | ① | SEWER LINE DRAIN MANHOLE | | | | H.P. | HIGH PRESSURE | | |
| | H | CATCH BASIN | | | | | | | |
| | | DRAIN LINE | | | | EOP | EDGE OF PAVEMENT | | |
| | E | ELEC. LINE | | | | BIT. | BITUMINOUS ASPHALT | | |
| | © | ELEC. MANHOLE | | | | CONC. | CONCRETE | | |
| | ن بن | UTILITY POLE | | | | GR. | GRANITE | | |
| • | ** **** | GUY WIRE LIGHT | | | | | | | |
| | | GAS LINE | | : | | | | | |
| | <u></u> | GAS VALVE | | • | | | | | |
| | © 1 | COMM. MANOLE | | | | 1 | | | |
| ٠., | c | COMM. LINE | | | | | | | |
| • | | LIMIT OF WORK | | | | | | | |
| | | STONEWALL | | | | | A Section 1997 | | |
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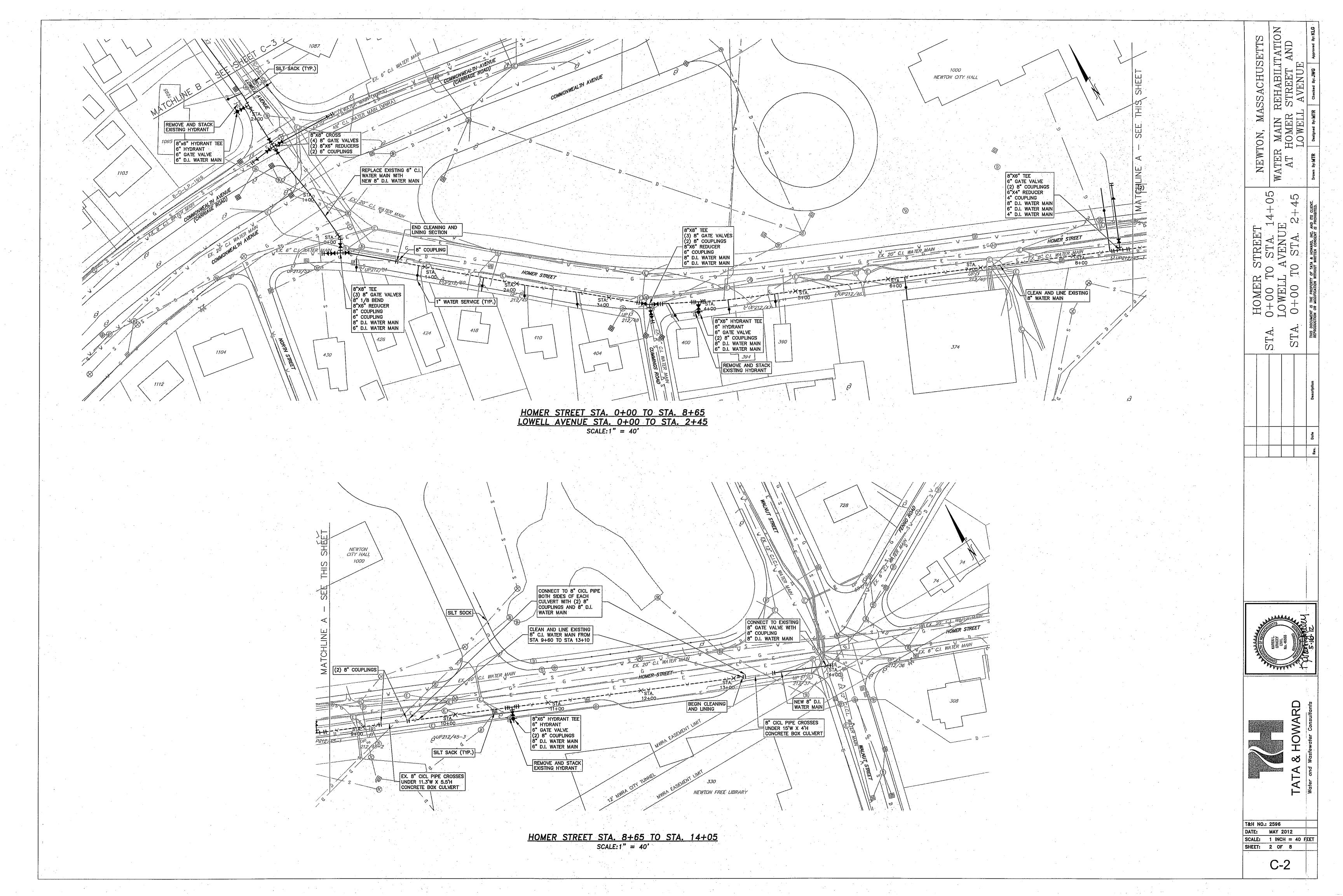




REHABILITATION STREET AND L AVENUE



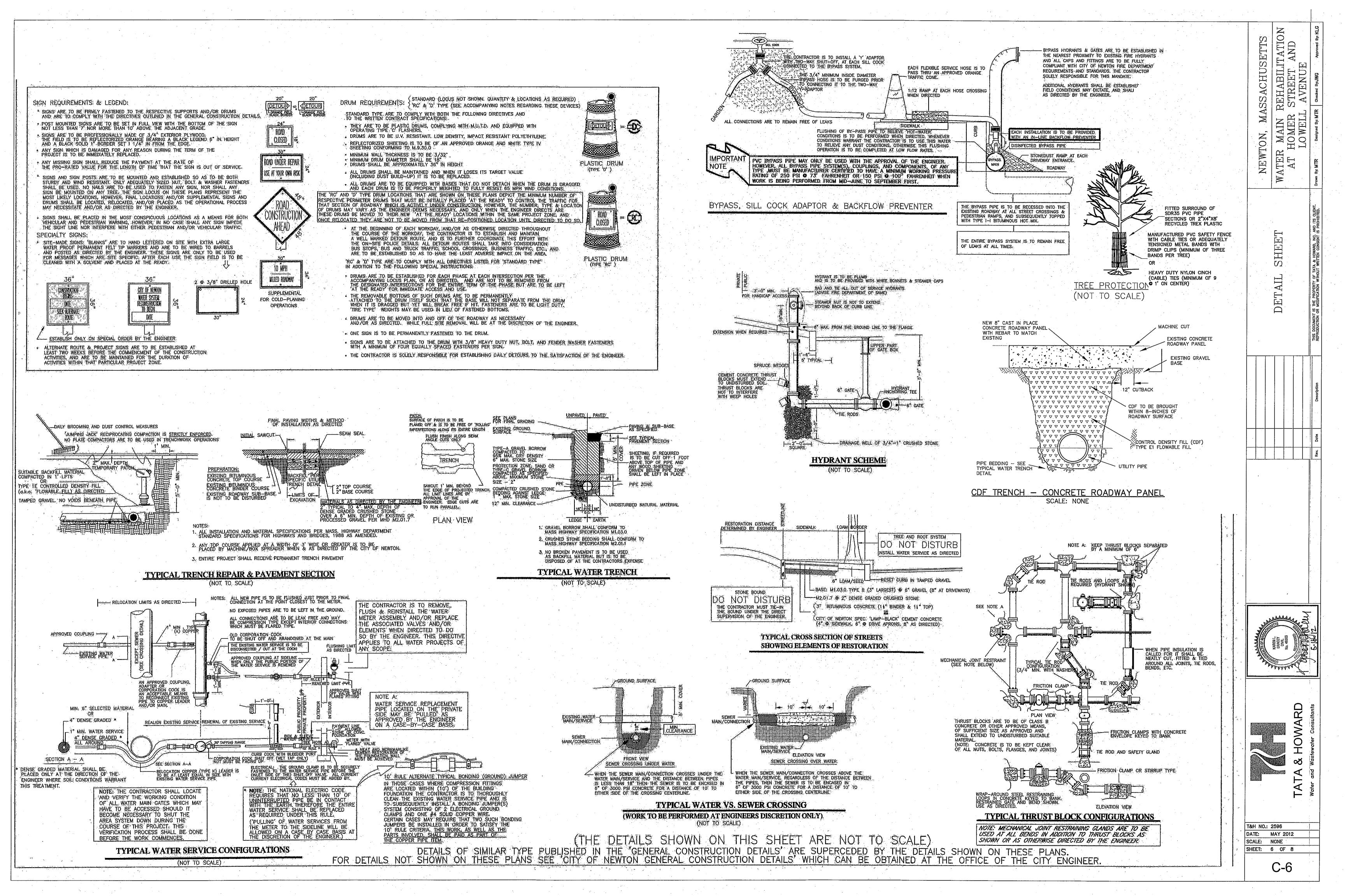
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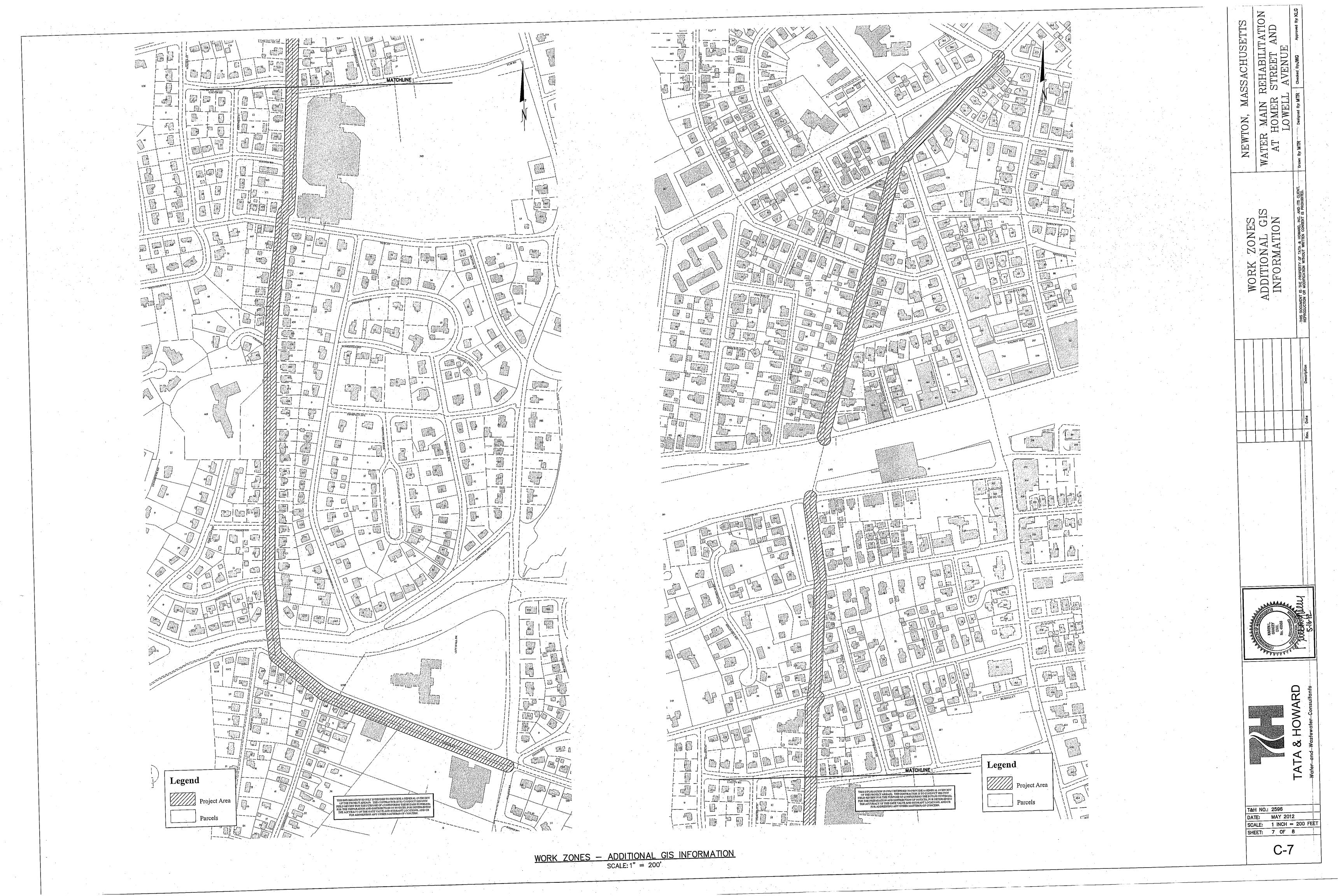


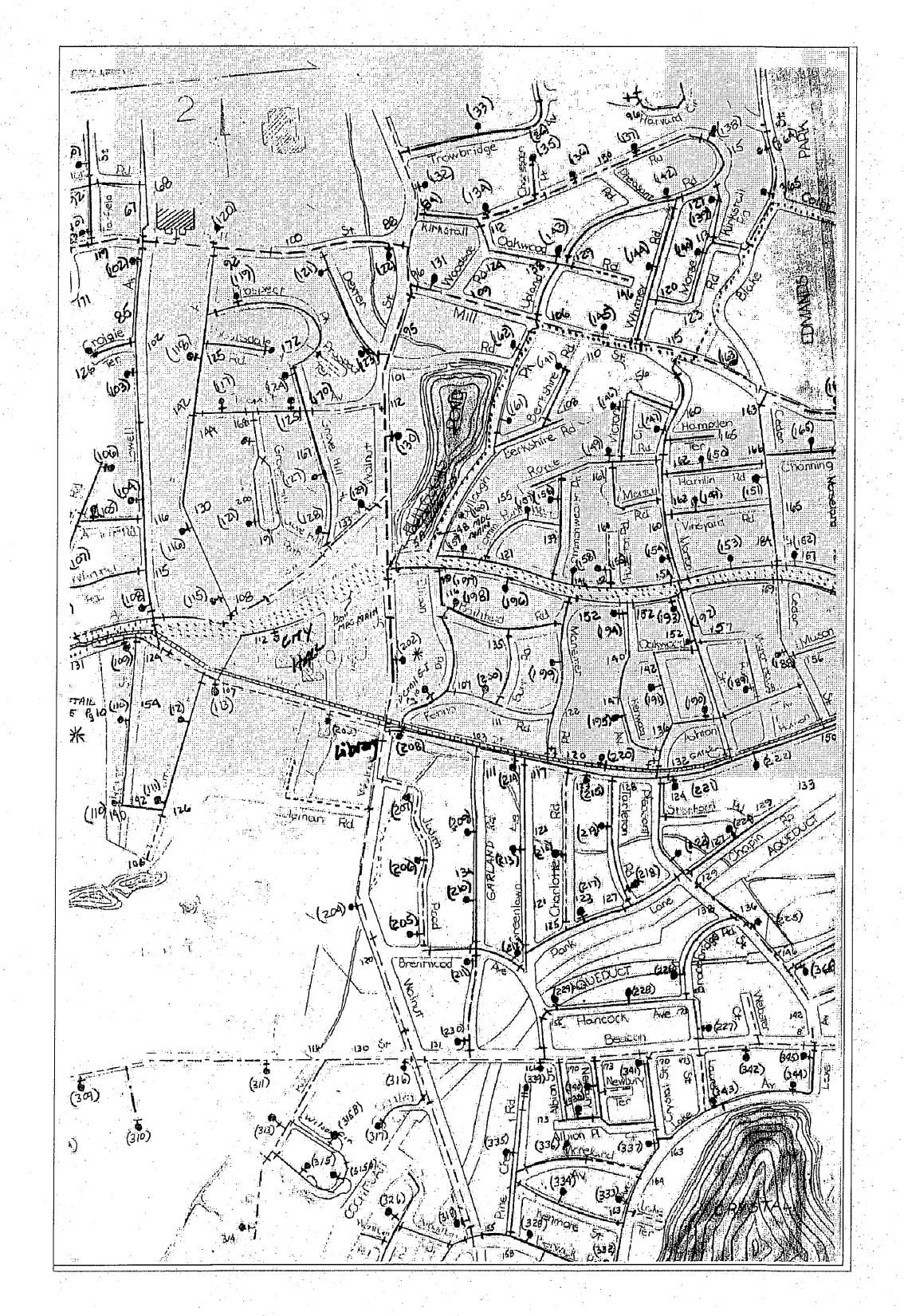




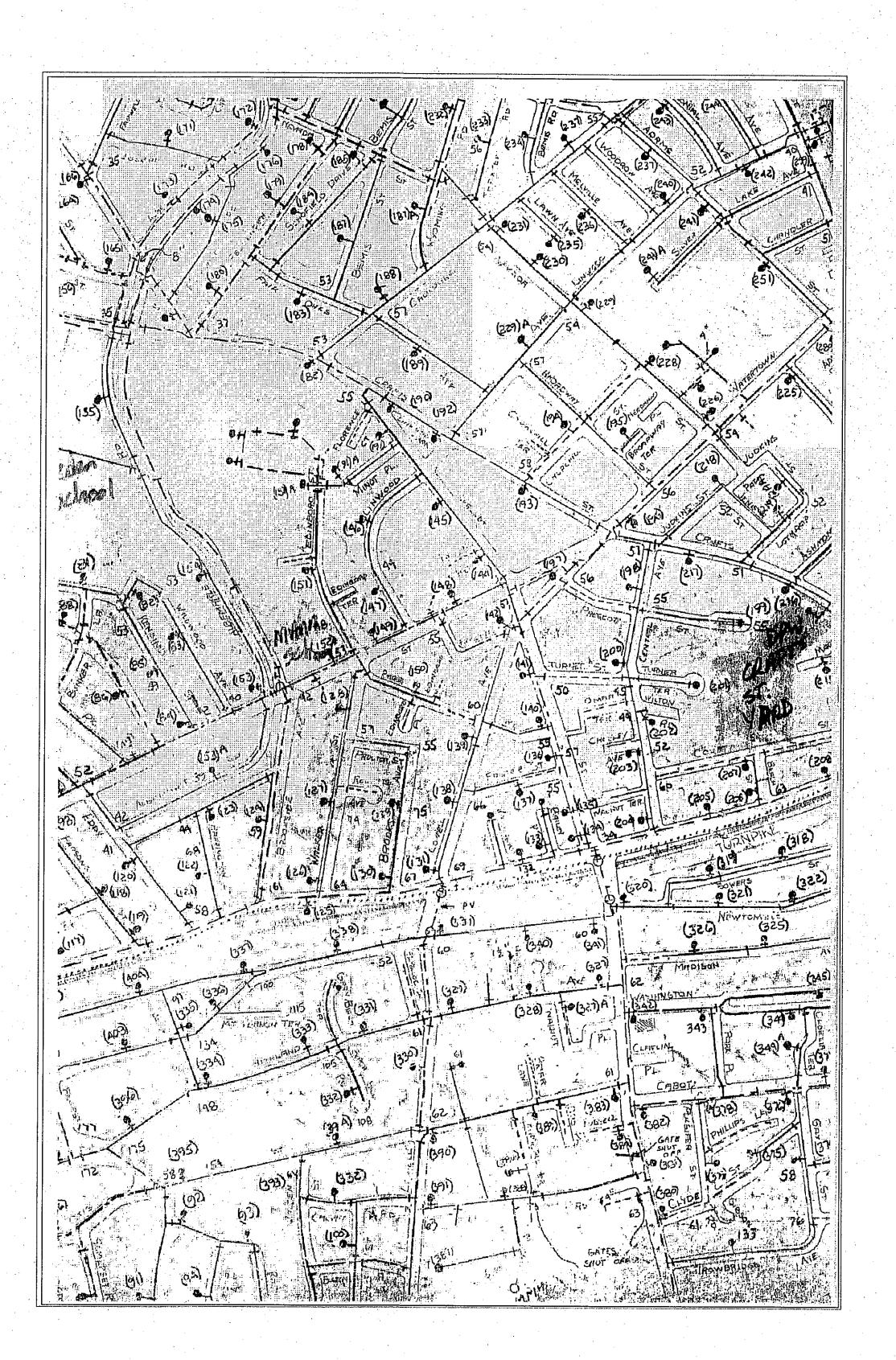




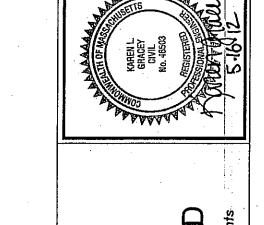




ATLAS MAP - HOMER STREET
SCALE: NONE



ATLAS MAP — LOWELL AVENUE SCALE: NONE



TATA & HOW

T&H NO.: 2596

DATE: MAY 2012

SCALE: 1 INCH = 200 FEET

SHEET: 8 OF 8

C-8